

Patent Abstracts of Japan

PUBLICATION NUMBER : 57158949
 PUBLICATION DATE : 30-09-82

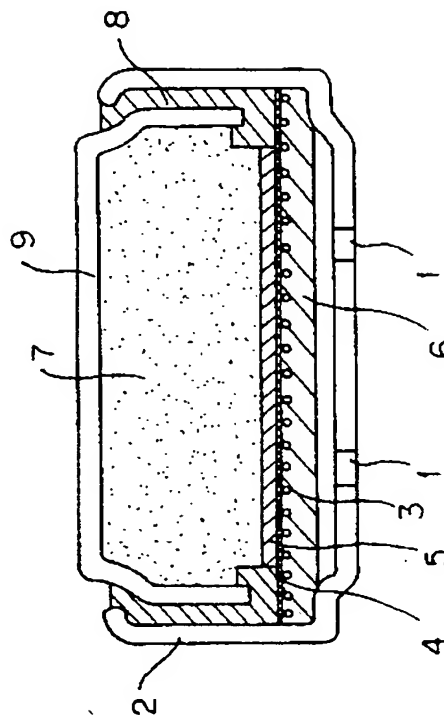
APPLICATION DATE : 25-03-81
 APPLICATION NUMBER : 56042520

APPLICANT : TOSHIBA CORP;

INVENTOR : NIKI HIROICHI;

INT.CL. : H01M 2/16 H01M 12/06

TITLE : ZINC-AIR CELL



ABSTRACT : PURPOSE: To obtain a zinc-air cell having high rate discharge capability, low self-discharge rate, and excellent shelf life by bonding a zincate ion nonpermeable separator on the surface of an air electrode with the mixture of polyvinyl alcohol and a boron oxide compound and an alkaline resistant gelling agent.

CONSTITUTION: An air electrode 6 which the mixture of polyvinyl alcohol and a boron oxide compound and an alkaline resistant gelling agent is coated on its nickel net surface 3 to form an adhesive layer 4, thereon a zincate ion nonpermeable separator is bonded, is accommodated in a cathode can 2 perforated air inlet holes in its bottom. An anode material 7 mainly comprising zinc is filled, and an anode can 9 is inserted with a gasket 8 interposed, and a cell is closed to obtain an zinc-air cell having high rate discharge capability, low self-discharge rate, and excellent shelf life.

COPYRIGHT: (C)1982,JPO&Japio

BEST AVAILABLE COPY